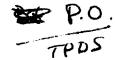
AN C 61



5 July 1961

MEMORANDUM FOR THE RECORD	
SUBJECT: 2:1 Reduction Printer Lens	STATINTL
1. On or about June 1960 a fixed price contract was to produce a 2:1 reduction lens to take a format fixed 9" x 9" and to accept 200 lines per millimeter and exploit to 400 lines per millimeter across the format. This lens the 2:1 reduction printer lens in the printer best, exploits 113 lines per millimeter on axis and drops per millimeter on the corners.	rom 18" x 18" oit the resolution was to replace r which, at its off to 68 lines STATINTL STATINTL
2. At the time the contract was let, change of ownership from	was undergoing
Due to personnel and personality difficulties little work	ver, about January is and several STATINTL which proved At this time,

3. The design calls for 14 elements ranging in diameter from 22" to 14" to construct on f/2.0 systems. Grinding time to be one man month per element. The size of the 2:1 lens to be 131 inches long and to weigh in the neighborhood of 1000 pounds. The lens will perform in either direction;

i.e., 2:1 reduction or 2:1 enlarging. In addition, this lens is a family of lenses; i.e., by changing the seven elements on the small end a 1:1, 2:1, 3:1 or 4:1 lens is available. after performing the design 4. It was determined by Ta 4:1 phase, that a 2:1 lens would cost

or that the 2:1 STATINTL STATINTL

STATINTL

It was determined that the 2:1 lens would not fit the present printer and that a different shutter arrangement other than would be necessary. Therefore, the following STATINTL that used by recommendations are made:

and a 4:1 attachment would cost

If the lens is built, that a lens bed be built by

to hold the lens and that a light source, magazine and shutter be built by them. Their price quote on this

Declass Review by NIMA/DOD

STATINTL

would cost

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	b. If the lens is built, that the contract be changed to an incentive contract with a fixed ceiling re negotiable downward. This is agreeable with STATINTL c. It is further recommended that the lens be manufactured if a need
	can be determined, since there is no lens in existence today that covers such large formats with the resolving characteristics that are claimed here. There are lenses available that cover a field of .45 inches that perform as well, but none that cover 18" x 18" or even 9" x 9" that carry 200 lines per millimeter across the field. For example, the which carries 113 lines per millimeter on axis with the fall off to 70 lines per millimeter on the corners. STATINTL
STATINTL	NPIC/TPDS: : jem
STATINTL	Mote: Meeting of 22 gune Mh Lundahl, 2hove Acided to place a stop wow order until it was dotarning
STATINTL	on until it was determined whether or not to proceed. Total STATINTL expenditure to date in

STATINTL